tissue, the bags/containers used to collect and transport the waste material, and animal bedding (if applicable).

*Primary chamber* means the chamber in an HMIWI that receives waste material, in which the waste is ignited, and from which ash is removed.

*Pyrolysis* means the endothermic gasification of hospital waste and/or medical/infectious waste using external energy.

Secondary chamber means a component of the HMIWI that receives combustion gases from the primary chamber and in which the combustion process is completed.

Shutdown means the period of time after all waste has been combusted in the primary chamber. For continuous HMIWI, shutdown shall commence no less than 2 hours after the last charge to the incinerator. For intermittent HMIWI, shutdown shall commence no less than 4 hours after the last charge to the incinerator. For batch HMIWI, shutdown shall commence no less than 5 hours after the high-air phase of combustion has been completed.

Small HMIWI means:

- (1) Except as provided in (2);
- (i) An HMIWI whose maximum design waste burning capacity is less than or equal to 200 pounds per hour; or
- (ii) A continuous or intermittent HMIWI whose maximum charge rate is less than or equal to 200 pounds per hour; or
- (iii) A batch HMIWI whose maximum charge rate is less than or equal to 1,600 pounds per day.
- (2) The following are not small HMIWI:
- (i) A continuous or intermittent HMIWI whose maximum charge rate is more than 200 pounds per hour;
- (ii) A batch HMIWI whose maximum charge rate is more than 1,600 pounds per day.

Standard conditions means a temperature of 20 °C and a pressure of 101.3 kilopascals.

Startup means the period of time between the activation of the system and the first charge to the unit. For batch HMIWI, startup means the period of time between activation of the system and ignition of the waste.

Wet scrubber means an add-on air pollution control device that utilizes an alkaline scrubbing liquor to collect particulate matter (including nonvaporous metals and condensed organics) and/or to absorb and neutralize acid gases.

## §60.52c Emission limits.

- (a) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility shall cause to be discharged into the atmosphere from that affected facility any gases that contain stack emissions in excess of the limits presented in Table 1 of this subpart.
- (b) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility shall cause to be discharged into the atmosphere from the stack of that affected facility any gases that exhibit greater than 10 percent opacity (6-minute block average).
- (c) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility utilizing a large HMIWI shall cause to be discharged into the atmosphere visible emissions of combustion ash from an ash conveying system (including conveyor transfer points) in excess of 5 percent of the observation period (i.e., 9 minutes per 3-hour period), as determined by EPA Reference Method 22, except as provided in paragraphs (d) and (e) of this section.
- (d) The emission limit specified in paragraph (c) of this section does not cover visible emissions discharged inside buildings or enclosures of ash conveying systems; however, the emissions limit does cover visible emissions discharged to the atmosphere from buildings or enclosures of ash conveying systems.
- (e) The provisions specified in paragraph (c) of this section do not apply during maintenance and repair of ash conveying systems. Maintenance and/or repair shall not exceed 10 operating days per calendar quarter unless the

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owner or operator obtains written approval from the State agency establishing a date whereby all necessary maintenance and repairs of ash conveying systems shall be completed.

## §60.53c Operator training and qualification requirements.

- (a) No owner or operator of an affected facility shall allow the affected facility to operate at any time unless a fully trained and qualified HMIWI operator is accessible, either at the facility or available within 1 hour. The trained and qualified HMIWI operator may operate the HMIWI directly or be the direct supervisor of one or more HMIWI operators.
- (b) Operator training and qualification shall be obtained through a State-approved program or by completing the requirements included in paragraphs (c) through (g) of this section.
- (c) Training shall be obtained by completing an HMIWI operator training course that includes, at a minimum, the following provisions:
- (1) 24 hours of training on the following subjects:
- (i) Environmental concerns, including pathogen destruction and types of emissions;
- (ii) Basic combustion principles, including products of combustion;
- (iii) Operation of the type of incinerator to be used by the operator, including proper startup, waste charging, and shutdown procedures;
- (iv) Combustion controls and monitoring;
- (v) Operation of air pollution control equipment and factors affecting performance (if applicable);
- (vi) Methods to monitor pollutants (continuous emission monitoring systems and monitoring of HMIWI and air pollution control device operating parameters) and equipment calibration procedures (where applicable);
- (vii) Inspection and maintenance of the HMIWI, air pollution control devices, and continuous emission monitoring systems;
- (viii) Actions to correct malfunctions or conditions that may lead to malfunction:
- (ix) Bottom and fly ash characteristics and handling procedures;

- (x) Applicable Federal, State, and local regulations;
  - (xi) Work safety procedures;
  - (xii) Pre-startup inspections; and
  - (xiii) Recordkeeping requirements.
- (2) An examination designed and administered by the instructor.
- (3) Reference material distributed to the attendees covering the course topics.
- (d) Qualification shall be obtained by:
- (1) Completion of a training course that satisfies the criteria under paragraph (c) of this section; and
- (2) Either 6 months experience as an HMIWI operator, 6 months experience as a direct supervisor of an HMIWI operator, or completion of at least two burn cycles under the observation of two qualified HMIWI operators.
- (e) Qualification is valid from the date on which the examination is passed or the completion of the required experience, whichever is later.
- (f) To maintain qualification, the trained and qualified HMIWI operator shall complete and pass an annual review or refresher course of at least 4 hours covering, at a minimum, the following:
  - (1) Update of regulations;
- (2) Incinerator operation, including startup and shutdown procedures;
  - (3) Inspection and maintenance;
- (4) Responses to malfunctions or conditions that may lead to malfunction; and
- (5) Discussion of operating problems encountered by attendees.
- (g) A lapsed qualification shall be renewed by one of the following methods:
- (1) For a lapse of less than 3 years, the HMIWI operator shall complete and pass a standard annual refresher course described in paragraph (f) of this section
- (2) For a lapse of 3 years or more, the HMIWI operator shall complete and pass a training course with the minimum criteria described in paragraph (c) of this section.
- (h) The owner or operator of an affected facility shall maintain documentation at the facility that address the following:
- (1) Summary of the applicable standards under this subpart;